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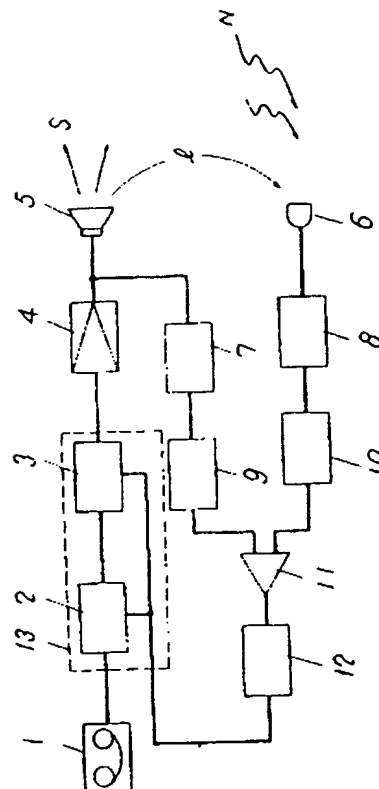
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TITLE : SOUND REPRODUCER



ABSTRACT : PURPOSE: To avoid a masking phenomenon caused by the travelling noise, by applying a part of the output signal of a reproducing system to an attenuator via an LPF and a delaying circuit and at the same time applying the noise signal detected by an ambient noise detector to a subtractor to detect only the noise signal.

CONSTITUTION: The reproduced signal given from a sound reproducer 1 is amplified by an amplifier 4 via a signal controller 13, and then a speaker 5 is driven to deliver a sound band signal S. On the other hand, the signal S and the ambient noise N are detected by a microphone 6 and then amplified by a microphone amplifier 8 to be applied to an input terminal of a subtractor 11 via an LPF 10. At the same time, a part of the output of the amplifier 4 is applied to the other input terminal of the subtractor 11 via an LPF 7 and a delaying circuit 9. The signal S which is affected by the distance between the microphone 6 and the loud speaker 5 is completely eliminated within the subtractor 11. Then the signal completely corresponding only to the noise N is obtained at the output terminal of the subtractor 11. The output signal of the subtractor 11 is converted into a DC signal by a rectifier 12 and applied to a signal controller 13. Thus a masking phenomenon due to the travelling noise can be avoided.

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